

Appl. No.: 10/632,359
Reply to Office Action of: 05/05/2006

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Please cancel claims 1-2, 5-7, 9, 11, 13-16 and 18-19 without prejudice.

Listing of Claims:

1-2. (Cancelled)

3. (Previously presented) A motion encoder for determining rotational movement of a rotatable member comprising:

an element providing multiple sets of electromagnetic radiation transmissions, each set comprising a plurality of areas having respectively different electromagnetic radiation transmission characteristics for onward transmission of electromagnetic radiation, the areas being arranged to provide a directionally unique sequence of transmission characteristics along a path traced on rotation of the rotatable member, and wherein the sets form multiple repetitive sequences about the element;

a source of electromagnetic radiation for directing the radiation towards the element;

a detector for sensing the onward transmission of the electromagnetic radiation from the element,

wherein the detector is located for rotation with the rotatable member.

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4. (Previously presented) A motion encoder for determining rotational movement of a rotatable member comprising:

an element providing multiple sets of electromagnetic radiation transmissions, each set comprising a plurality of areas having respectively different electromagnetic radiation transmission characteristics for onward transmission of electromagnetic radiation, the areas being arranged to provide a directionally unique sequence of transmission characteristics along a path traced on rotation of the rotatable member, and wherein the sets form multiple repetitive sequences about the element;

a source of electromagnetic radiation for directing the radiation towards the element;

a detector for sensing the onward transmission of the electromagnetic radiation from the element,

wherein the source is located for rotation with the rotatable member.

5-16. (Cancelled)

17. (Currently amended) A motion encoder comprising:

a source of electromagnetic radiation;

a detector for sensing electromagnetic radiation; and

a rotatable member located in a path between the source and the detector, wherein the rotatable member comprises multiple sets of electromagnetic radiation transmissions, each set comprising a plurality of electromagnetic

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radiation affecting surfaces having respectively different opacities to electromagnetic radiation ~~affecting characteristics~~ for affecting transmission of electromagnetic radiation from the source to the detector into respective different amounts of electromagnetic radiation, wherein the surfaces are arranged to provide a directionally unique sequence of transmission characteristics along the path when the rotatable member is rotated, and wherein the sets form multiple repetitive sequences about the element.

18-19. (Cancelled)